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WHAT IS CLAIMED IS:

1	1.	A method for controlling and providing access to a file to at least one
2	remote comp	uter over a network, comprising:
3	maint	aining metadata about files maintained at remote storage
4	locations;	
5	receiv	ring a request from the remote computer for a filename of a
6	requested file	e over the network;

- determining from the metadata one remote storage location address 7 associated with the filename where the requested file is located; 8
- 9 updating the metadata for the requested file; and sending the storage location address to the remote computer. 10
- 1 2. The method of claim 1, wherein the remote computer is a source code
- 2 management system client.
- The method of claim 1, wherein the storage location address identifies 3. 1 2 a storage device that is at a geographical location closer to the remote computer than a location of the metadata. 3
- The method of claim 3, wherein the request is for checking-out the 4. 2 requested file corresponding to the filename, and further comprising:
- 3 locking the requested file;
- 4 returning a response code to the remote computer indicating that file check-out 5 is successful; and
- updating the metadata indicating that the requested file is checked-out and 6 locked. 7
- 1 5. The method of claim 3, wherein the request is for checking-in the 2 requested file corresponding to the filename, and further comprising:
- 3 updating the metadata indicating the requested file is unlocked; and

4 returning a response code indicating that the file check-in is successful.

- 1 6. The method of claim 1, further comprising:
- 2 processing a pattern of requests for the file received from remote computers at
- 3 different geographical locations;
- determining one of a plurality of remote storage locations based on the pattern
- 5 of requests for the file;
- storing the file corresponding to the file at the determined remote storage
- 7 location; and
- 8 saving a correspondence between the file and the storage location address in
- 9 the metadata.
- 7. The method of claim 6, wherein the determined remote storage
- 2 location is at a geographical location that is more proximate to the remote computer
- 3 having more requests for the file than other remote computers.
- 1 8. The method of claim 6, wherein the determined remote storage
- 2 location is selected from the plurality of remote storage locations to minimize a
- 3 distance the requested file is transmitted between each remote computer and the
- 4 remote storage location based on the number of requests for the file from each remote
- 5 computer.
- 1 9. The method of claim 1, wherein the remote computer is a source code
- 2 management system client, and the request is one of check-in, check-out, extract,
- 3 lock, unlock, delete.
- 1 10. A method for accessing a file in a source code management system,
- 2 comprising:
- 3 sending a first request for a file;

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4	receiving a storage location address containing the file in response to the first		
5	request;		
6	sending a second request to the storage location address; and		
7	receiving an access to the file from the storage location address.		
1	11. The method of claim 10, wherein the first request is for checking-out		
2	the file, and further comprising:		
3	downloading the file from the storage location address.		
1	12. The method of claim 10, wherein the first request is for checking-in		
2	the file, and further comprising:		
3	sending a new version of the file to the storage location address.		
1	13. The method of claim 10, further comprising:		
2	receiving a first response code from a remote computer in response to the first		
3	request; and		
4	receiving a second response code from the storage location in response to the		
5	second request.		
1	14. A system for controlling and providing access to a file to remote		
2	computers over a network, wherein remote storage locations are accessible over the		
3	network, comprising:		
4	metadata including information about files at the remote storage locations;		
5	means for receiving a request from one remote computer for a filename of a		
6	requested file over the network;		
7	means for determining from the metadata one storage location address of one		
8	remote storage location associated with the filename where the requested file is		
9	located;		

means for updating the metadata for the requested file; and

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11	means for sending the remote storage location address to the remote
12	computer.

- 1 15. The system of claim 14, wherein the remote computer is a source code 2 management system client.
- 1 16. The system of claim 14, wherein the storage location address identifies 2 a storage device that is at a geographical location closer to the remote computer than 3 a location of the metadata.
- 1 17. The system of claim 16, wherein the request is for checking-out the requested file corresponding to the filename, and further comprising:
- means for locking the requested file;
- 4 means for returning a response code to the remote computer indicating that file 5 check-out is successful; and
- 6 means for updating the metadata indicating that the requested file is checked-out 7 and locked.
- 1 18. The system of claim 16, wherein the request is for checking-in the requested file corresponding to the filename, and further comprising:
- means for updating the metadata indicating the requested file is unlocked; and means for returning a response code indicating that the file check-in is
- 5 successful.
- 1 19. The system of claim 14, further comprising:
- 2 means for processing a pattern of requests for the file received from remote
- 3 computers at different geographical locations;
- 4 means for determining one of a plurality of remote storage locations based on
- 5 the pattern of requests for the file;

6	means for storing the file corresponding to the file at the determined remote
7	storage location; and
8	means for saving a correspondence between the file and the storage location

- 9 address in the metadata.
- 1 20. The system of claim 19, wherein the determined remote storage
- 2 location is at a geographical location that is more proximate to the remote computer
- 3 having more requests for the file than other remote computers.
- 1 21. The system of claim 19, wherein the determined remote storage
- 2 location is selected from the plurality of remote storage locations to minimize a
- 3 distance the requested file is transmitted between each remote computer and the
- 4 remote storage location based on the number of requests for the file from each remote
- 5 computer.
- 1 22. The system of claim 14, wherein the remote computer is a source
- 2 code management system client, and the request is one of check-in, check-out,
- 3 extract, lock, unlock, delete.
- 1 23. A system for accessing a file in a source code management system,
- 2 comprising:
- means for sending a first request for a file;
- 4 means for receiving a storage location address containing the file in response
- 5 to the first request;
- 6 means for sending a second request to the storage location address; and
- 7 means for receiving an access to the file from the storage location address.
- 1 24. The system of claim 23, wherein the first request is for checking-out
- 2 the file, and further comprising:
- means for downloading the file from the storage location address.

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1	25. The system of claim 23, wherein the first request is for checking-in the	
2	file, and further comprising:	
3	means for sending a new version of the file to the storage location address.	
1	26. The system of claim 23, further comprising:	
2	means for receiving a first response code from a remote computer in response	
3	to the first request; and	
4	means for receiving a second response code from the storage location in	
5	response to the second request.	
1	27. An article of manufacture including code for controlling and	
2	providing access to a file at storage locations on a network to at least one remote	
3	computer over the network, wherein the code is capable of causing operations	
4	comprising:	
5	maintaining metadata about files maintained at remote storage	
6	locations;	
7	receiving a request from the remote computer for a filename of a	
8	requested file over the network;	
9	determining from the metadata one remote storage location address	
10	associated with the filename where the requested file is located;	
11	updating the metadata for the requested file; and	
12	sending the storage location address to the remote computer.	
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1	28. The article of manufacture of claim 27, wherein the remote computer	
2	is a source code management system client.	
1	29. The article of manufacture of claim 27, wherein the storage location	

address identifies a storage device that is at a geographical location closer to the

remote computer than a location of the metadata.

1	30. The article of manufacture of claim 29, wherein the request is for	
2	checking-out the requested file corresponding to the filename, and further comprising:	
3	locking the requested file;	
4	returning a response code to the remote computer indicating that file check-out	
5	is successful; and	
6	updating the metadata indicating that the requested file is checked-out and	
7	locked.	
1	31. The article of manufacture of claim 29, wherein the request is for	
2	checking-in the requested file corresponding to the filename, and further comprising:	
3	updating the metadata indicating the requested file is unlocked; and	
4	returning a response code indicating that the file check-in is successful.	
1	32. The article of manufacture of claim 27, further comprising:	
2	processing a pattern of requests for the file received from remote computers at	
3	different geographical locations;	
4	determining one of a plurality of remote storage locations based on the pattern	
5	of requests for the file;	
6	storing the file corresponding to the file at the determined remote storage	
7	location; and	
8	saving a correspondence between the file and the storage location address in	
9	the metadata.	
1	33. The article of manufacture of claim 32, wherein the determined remote	
2	storage location is at a geographical location that is more proximate to the remote	
3	computer having more requests for the file than other remote computers.	

The article of manufacture of claim 32, wherein the determined remote 1 storage location is selected from the plurality of remote storage locations to minimize 2 a distance the requested file is transmitted between each remote computer and the 3

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- remote storage location based on the number of requests for the file from each remote computer.
- The article of manufacture of claim 27, wherein the remote computer
- 2 is a source code management system client, and the request is one of check-in, check-
- 3 out, extract, lock, unlock, delete.
- 1 36. A article of manufacture including code for accessing a file in a source
- 2 code management system, wherein the code is capable of causing operations
- 3 comprising:
- 4 sending a first request for a file;
- 5 receiving a storage location address containing the file in response to the first
- 6 request;
- 7 sending a second request to the storage location address; and
- 8 receiving an access to the file from the storage location address.
- 1 37. The article of manufacture of claim 36, wherein the first request is for checking-out the file, and further comprising:
- 3 downloading the file from the storage location address.
- The article of manufacture of claim 36, wherein the first request is for
- 2 checking-in the file, and further comprising:
- 3 sending a new version of the file to the storage location address.
- 1 39. The article of manufacture of claim 36, further comprising:
- 2 receiving a first response code from a remote computer in response to the first
- 3 request; and
- 4 receiving a second response code from the storage location in response to the
- 5 second request.